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Sathya, R. [IN/US]; 4604 Hunters Glen Drive, Plainsboro, NJ 08536 (US). KHANDELWAL, Rajesh, B. [US/US]; 1031 Buxton Road, Bridgewater, NJ 08807 (US).

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(74) Agent: NIGON, Kenneth, N.; RatnerPrestia, P.O. Box 980, Valley Forge, PA 19482 (US).

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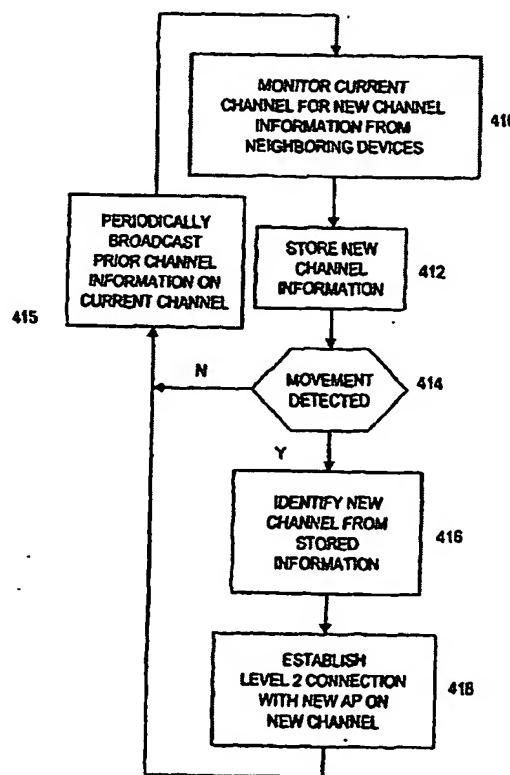
(71) Applicant (for all designated States except US): MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD. [JP/JP]; Matsushita IMP Building, 19th Floor, 1-3-7 Shiromi Chuo-ku, Osaka 540-6319 (JP).

(72) Inventors; and

(75) Inventors/Applicants (for US only): NARAYANAN,

*[Continued on next page]*

(54) Title: METHOD FOR REDUCING HAND-OFF LATENCY IN MOBILE NETWORKS



(57) **Abstract:** A method for use in a mobile device to expedite hand-off of mobile devices between access points first detects movement of the mobile device among the coverage ranges of the access points. A mobile device that moves from one access point to another periodically transmits information on the data link level connection of its new access point on the channel used to access its prior access point. A first mobile device that is coupled to access points in a particular area maintains network level access information for access points with which it has communicated. When a new mobile device enters the area, the first device detects the new device and transmits the list to the new mobile device, enabling the new device to connect to an access point without transmitting a router solicitation message or receiving a router advertisement message.